CLAIMS

We claim:

1. A saw blade, comprising:

an elongated body having a longitudinal edge and defining a plane of main extension;

a plurality of protrusions each being located in the region of said longitudinal edge and each including a seat;

a plurality of form bodies each being made of hard cutting material, having a cross section and being connected to one of said seats,

each cross section of said form bodies in the plane of main extension at a side facing said respective seat being limited by a line in the form of a circular arc and at a side facing away from said respective seat being limited by a front line of a surface,

the line in the form of a circular arc and the front line enclosing a wedge angle which is less than approximately 90 degrees and being designed and arranged to form a free angle;

a plurality of cutting portions each extending approximately transverse with respect to the plane of main extension; and

a plurality of teeth each being formed by one of said protrusions and said respective form body.

2. The saw blade of claim 1, wherein at least one of said form bodies is designed as a part of a ball.

3. The saw blade of claim 1, wherein at least one of said form bodies is designed as a

part of a cylinder.

4. The saw blade of claim 2, wherein only the surface limiting said form body at the side facing away from said seat is ground.

5. The saw blade of claim 3, wherein only the surface limiting the form body at the side facing away from said seat is ground.

6. The saw blade of claim 1, wherein the surface is designed as a plain surface.

7. The saw blade of claim 2, wherein the surface is designed as a plain surface.

8. The saw blade of claim 3, wherein said surface is designed as a plain surface.

9. The saw blade of claim 4, wherein said surface is designed as a plain surface.

10. The saw blade of claim 5, wherein said surface is designed as a plain surface.

11. The saw blade of claim 2, wherein said part of said ball is less than a semi ball.

12. The saw blade of claim 3, wherein said cylinder includes a surface area, two faces and an axis, said part of said cylinder in a transition region being located between said surface area and said faces having a rounded design, and the axis being located to be perpendicular with respect to the plane of main extension.

13. The saw blade of claim 1, wherein at least some of said teeth are set.

14. The saw blade of claim 1, wherein said saw blade is designed to cut abrasive materials.

15. A saw blade for cutting abrasive materials, comprising:

an elongated body having a longitudinal edge and defining a plane of main extension;

a plurality of protrusions each being located in the region of said longitudinal edge and each including a seat;

a plurality of form bodies each being made of hard cutting material, having a cross section and being connected to one of said seats,

each cross section of said form bodies in the plane of main extension at a side facing said respective seat being limited by a line in the form of a circular arc and at a side facing away from said respective seat being limited by a front line of a plain, ground surface,

the line in the form of a circular arc and the front line enclosing a wedge angle which is less than approximately 90 degrees and being designed and arranged to form a free angle;

a plurality of cutting portions each extending approximately transverse with respect to the plane of main extension; and

a plurality of teeth each being formed by one of said protrusions and said respective form body.

16. The saw blade of claim 15, wherein at least one of said form bodies is designed as a part of a ball.

17. The saw blade of claim 15, wherein at least one of said form bodies is designed as a

part of a cylinder.

18. A method of producing a saw blade, said method comprising the steps of:

forming a plurality of protrusions at a longitudinal edge of an elongated body;

forming a seat at each of the protrusions;

connecting a form body being made of hard cutting material to each of the seats;

forming a surface at each of the form bodies at a side facing away from the respective seat to form a cutting portion of a tooth; and

connecting a round element to each seat in a way that the cutting portion has a wedge angle which is less than approximately 90 degrees and a free angle is formed.

19. The method of claim 18, wherein the form body only at its side facing away from the seat is ground.

20. The method of claim 18, wherein at least some of the teeth are set.

21. The method of claim 19, wherein at least some of the teeth are set.

22. The method of claim 18, wherein the saw blade serves to cut abrasive materials.